

DT04 Rec'd PCT/PTO 14 SEP 2004

DOCKET NO.: 258963US2PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Masanobu AWANO et al.

SERIAL NO.: NEW U.S. PCT APPLICATION

FILED: HEREWITH

INTERNATIONAL APPLICATION NO.: PCT/JP03/03178

INTERNATIONAL FILING DATE: March 17, 2003

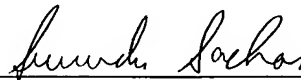
FOR: CHEMICAL REACTOR FOR NITROGEN OXIDE REMOVAL AND METHOD OF REMOVING NITROGEN OXIDE

**REQUEST FOR CONSIDERATION OF DOCUMENTS
CITED IN INTERNATIONAL SEARCH REPORT**Commissioner for Patents
Alexandria, Virginia 22313

Sir:

In the matter of the above-identified application for patent, notice is hereby given that applicant(s) request that the Examiner consider the documents cited in the International Search Report according to MPEP §609 and so indicate by a statement in the first Office Action that the information has been considered. When the Form PCT/DO/EO/903 indicates both the search report and copies of the documents are present in the national stage file, there is no requirement for the applicant(s) to submit them (1156 O.G. 91 November 23, 1993).

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Marvin J. Spivak
Attorney of Record
Registration No. 24,913
Surinder Sachar
Registration No. 34,423Customer Number
22850(703) 413-3000
Fax No. (703) 413-2220
(OSMMN 08/03)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/03178

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ B01D53/94, B01D53/86, B01J23/83

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ B01J21/00-38/74, B01D53/86, B01D53/94, B01D53/56,
B01J19/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1926-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|--------------------------------|
| P, X | JP 2003-33646 A (National Institute of Advanced Industrial Science and Technology), 04 February, 2003 (04.02.03), Claims 1, 3, 4, 8 to 10; Par. Nos. [0012] to [0014]; examples & US 2003/19762 A1 | 1-5, 8-13 |
| X Y | AWANO, M. et al., Low Current Density Electrochemical Cell for NO Decomposition. International Conference on Solid State Ionics, Materials and Processes for Energy & Environment. July 2001, page 183 | 1-3, 5, 8-10 4, 6, 7, 11-18 |
| Y | JP 8-332342 A (Hokushin Corp.), 17 December, 1996 (17.12.96), Claim 1 (Family: none) | 4, 6, 7, 11-18 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
13 June, 2003 (13.06.03)Date of mailing of the international search report
24 June, 2003 (24.06.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

Best Available Copy

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/03178

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 2001-198455 A (Toyota Motor Corp.), 24 July, 2001 (24.07.01), Claim 5; Par. No. [0018] (Family: none) | 14-18 |
| X | JP 9-99213 A (Petroleum Energy Center (PEC)), 15 April, 1997 (15.04.97), Claims 2, 10; Par. Nos. [0007], [0022] (Family: none) | 19-23 |